

REMARKS

This case has been carefully reviewed and analyzed in view of the Official Action dated 18 December 2002. Responsive to the rejection made in the Official Action, Claim 1 has been canceled by this Amendment and replaced by new Claim 2, which was the easiest method to clarify the combination of elements which form the invention of the subject Patent Application.

In the Official Action, the Examiner rejected Claim 1 under 35 U.S.C. § 102, as being anticipated by Ohkura, et al., U.S. Patent #6,002,187. The Examiner stated that the reference disclosed a vehicle electrical generator having a magnetic ring on one side of a wheel and an inductive coil on the shaft of the wheel.

Before discussing the prior art relied upon by the Examiner, it is believed beneficial to first briefly review the structure of the invention of the subject Patent Application, as now claimed. The invention of the subject Patent Application is directed to an electrical generator for a vehicle having at least one wheel mounted on an axle shaft for rotation of the wheel relative to the axle shaft. The electrical generator includes a housing having a centrally disposed barrel extending longitudinally from one side thereof. The barrel has a longitudinally directed through bore formed therein for mounting the housing on the axle shaft. The electrical generator includes an annular induction coil disposed in a perimeter portion of the housing and having a pair of output leads coupled to a load. The electrical generator also includes an isolating sleeve coupled to the wheel for rotation therewith and

extending over the axle shaft into the housing. The electrical generator further includes a magnetic ring mounted on the sleeve for rotation therewith. The magnetic ring is disposed within the housing and located between the isolating sleeve and the annular induction coil. By that arrangement, electrical energy is induced in the induction coil and supplied to the load responsive to rotation of the wheel.

In contradistinction, the Ohkura, et al. reference discloses a bicycle electricity generator wherein the stator 4 includes a coil 10 enclosed by a metal yoke 9. The rotor 3 has a case 6 with a central hole 5 through which the wheel axle 1 passes. The rotor case 6 has an annular magnet 7 affixed thereto and arranged to rotate about the coil 10. Therefore, the reference fails to disclose a housing having a centrally disposed barrel extending longitudinally from one side thereof, the barrel having a longitudinally directed through bore formed therein for mounting the housing on the axle shaft. Further, the reference fails to disclose an isolating sleeve coupled to the wheel for rotation therewith and extending over the axle shaft into the housing. Still further, the reference fails to disclose a magnetic ring mounted on the sleeve for rotation therewith, the magnetic ring being disposed within the housing and located between the isolating sleeve and the annular induction coil. By that arrangement, the invention of the subject Patent Application provides a compact and enclosed generator system, to thereby stay free of contaminants and not be subject to be easily damaged. As the reference fails to disclose each and every one of the elements of the invention of the subject Patent Application, it cannot anticipate that invention. Further, as

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the reference teaches away from the structure of the invention of the subject Patent Application, it cannot make obvious that invention either.

It is now believed that the subject Patent Application has been placed in condition for allowance, and such action is respectfully requested.

Respectfully submitted,
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